ANNUAL REPORT

1983 - 1984

MANITOBA HEALTH RESEARCH COUNCIL

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MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. Lyonel G. Israels*, Chairman
- Executive Director, Manitoba Cancer Treatment & Research Foundation

Dr. J. Foerster*
- Professor and Head, Department of Medicine, St. Boniface General Hospital

Dr. Helen Glass
- Professor of Nursing, University of Manitoba

Dr. K.R. Hughes*
- Dean of Graduate Studies, University of Manitoba

Dr. M.I. Hussain
- General Surgeon, Selkirk, Manitoba

Dr. A. Kristjanson*
- Professor of Sociology, University of Manitoba

Dr. J.P. Maclean
- Director of Nuclear Medicine, St. Boniface General Hospital

Dr. A. Naimark**
- President, University of Manitoba

Mr. D. Pascoe
- Director, Research & Planning Directorate, Manitoba Department of Health

Mr. R.K. Siddall
- Vice President and Secretary, The Great West Life Assurance Company

Dr. J.G. Wade**
- Dean of Medicine, University of Manitoba

* Members of the Executive and Finance Committee

** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director - Dr. Frits C. Stevens

Administrative Secretary - Priscilla Loewen

REPORT OF THE CHAIRMAN

In its last annual report Council indicated that a primary objective must be the protection of future health research in Manitoba. To this end Council targetted up to 30% of its budget to programs designed to train and establish new research workers. In addition to support for graduate students and postdoctoral training it was decided to phase in career investigator support for young research workers who had recently completed their training and were ready to launch their independent research careers. The first phase of the program became a reality during the present fiscal year and I am pleased to report that Council was able under its new Scholarship program to provide salary support for two investigators as well as establishment grants to six investigators who recently took up positions in Manitoba. The need for these programs was clearly demonstrated by the number of applicants for personnel awards. There were fifteen Scholarship applications of which two were awarded, twenty-four applications for Post-Doctoral Fellowships of which four were awarded, and forty-six Studentship applications of which ten were awarded. Council also received ninety-one applications for operating and equipment grants requesting a total of $2,064,380 of which twenty-five grants were awarded totalling $604,990. These grants covered such diverse areas of health research as heart disease, multiple sclerosis, respiratory disease, fertility, palliative care, cancer, Downs syndrome and diabetes.

The 1983 Reference List of Health Science Research in Manitoba now published annually by Council shows that for the 1983 calendar year a total of 13.9 million dollars was expended on health research of which 78% came from outside the Province. Funds provided by the Manitoba Health Research

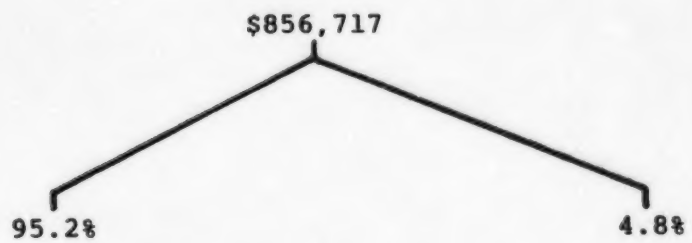
Council represented 25% of intra-provincial funds or 5.4% of the total. Council looks forward to fiscal 1984/85 when some of the lottery funds will be made available for health research. The addition of these funds will represent a significant step towards the establishment of an adequate funding base for health research in Manitoba.

Council's financial statement, lists of committees, grants and awards for 1983/84 are detailed in the remainder of the report.

* * *

1983-84 FISCAL OVERVIEW

TOTAL EXPENDITURES



GRANTS IN AID

Personnel Awards	27.3%
Scholars 7.1%	
Postdoctoral Fellows 8.9%	
Students 11.2%	
Establishment Grants	12.7%
Equipment Grants	6.5%
Operating Grants	53.5%
	100 %

ADMINISTRATION

Salaries	80.4%
Other Expenses	19.6%
	100 %

MANITOBA

PROVINCE OF MANITOBA
PROVINCIAL AUDITOR

THE MANITOBA HEALTH RESEARCH COUNCIL

REPORT OF THE PROVINCIAL AUDITOR'S OFFICE

We have examined the financial statements, being Exhibits A and B and Schedule 1, of The Manitoba Health Research Council for the fiscal year ended March 31, 1984. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of The Manitoba Health Research Council as at March 31, 1984 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements applied on a basis consistent with that of the preceding period.

W. K. Ziprick, C.A.,
Provincial Auditor.

May 11, 1984,
Winnipeg, Manitoba.

Exhibit A

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1984
(with 1983 figures for comparison)

	1984	1983
ASSETS		
Cash	$ 10,224	$ 6,023
Funds on deposit with the Minister of Finance	-	79,596
Accrued interest	556	-
	$ 10,780	$ 85,619
LIABILITIES AND UNEXPENDED FUNDS		
Accounts payable	$ 1,130	$ 1,071
Unexpended funds, Exhibit B	9,650	84,548
	$ 10,780	$ 85,619

Approved on behalf of the Council:

DIRECTOR

DIRECTOR

The accompanying notes are an integral part of the financial statements.

Exhibit B

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues and Expenditures and Unexpended Funds

	For the Year Ended March 31, 1984	For the Period August 15, 1982 to March 31, 1983 (Note 5)
Revenues:		
Grant from the Province of Manitoba	$ 763,000	$ -
Returned grant funds	17,162	6,023
Bank interest	1,657	-
	781,819	6,023
Expenditures:		
Research grants:		
University of Manitoba on behalf of grantees	780,590	-
University of Winnipeg on behalf of grantees	33,500	-
Manitoba Cancer Treatment and Research Foundation on behalf of grantees	1,625	-
	815,715	-
Administration expenses, Schedule 1	41,002	22,160
	856,717	22,160
Excess of expenditures over revenues	74,898	16,137
Unexpended funds, beginning of year	84,548	100,685
Unexpended funds, end of year, Exhibit A	$ 9,650	$ 84,548

The accompanying notes are an integral part of the financial statements.

Schedule 1

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses

	For the Year Ended March 31, 1984	For the Period August 15, 1982 to March 31, 1983 (Note 5)
Accounting and audit	$ 2,109	$ -
Bank charges	46	-
Council and committee expenses	402	-
Office equipment	1,465	1,363
Postage and delivery	514	147
Printing and stationery	3,074	962
Salaries and benefits	33,067	18,388
Telephone	325	185
Travel	-	1,115
Total administration expenses, Exhibit B	$ 41,002	$ 22,160

The accompanying notes are an integral part of the financial statements.

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements for the year ended March 31, 1984

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by an Act of the Legislature, being Chapter 31, The Manitoba Health Research Council Act which came into force effective August 15, 1982. The Council was established to promote and assist basic, clinical and applied research in the health sciences in Manitoba and advise the Minister in respect of such matters relating to health research as the Minister may refer to the Council for its consideration.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) An accrual basis of accounting is used.

(b) Research grants are reflected as commitments when funding is approved by the Council. The grants are recorded as expenditures when the payments are made.

(c) Furniture and equipment purchases are recorded as expenditures in the year of acquisition.

4. COMMITMENTS

The Council has approved research grants amounting to $27,650 which are to be paid in the next fiscal year.

5. COMPARATIVE FIGURES

The Council was incorporated effective August 15, 1982, as explained in note 1. The comparative figures reflect the Council's financial operations from the date of incorporation to March 31, 1983. The accounts for the period August 15, 1982 to March 31, 1983 were examined and reported on by another auditor.

Pre-incorporation operations were reflected through the accounts of the Province of Manitoba.

OPERATING & EQUIPMENT GRANTS

A. Scientific Review Committee

Dr. J. Hamerton (Chairman), Department of Human Genetics, University of Manitoba.

Dr. K.W. Cheng, Department of Physiology, University of Manitoba.

Professor L. Degner, School of Nursing, University of Manitoba.

Dr. H.W. Duckworth, Department of Chemistry, University of Manitoba.

Professor P. Farrell, Manitoba Association of Registered Nurses.

Dr. R.J. Hoeschen, Department of Internal Medicine, University of Manitoba.

Dr. J. Horne, Department of Social & Preventive Medicine, University of Manitoba.

Dr. F. Kisil, Department of Immunology, University of Manitoba.

Dr. L. Oppenheimer, Department of Surgery, University of Manitoba.

Dr. J.A. Paterson, Department of Anatomy, University of Manitoba.

Dr. E. Sabbadini, Department of Immunology, University of Manitoba.

Dr. K. Simons, Faculty of Pharmacy, University of Manitoba.

Dr. J.A. Thliveris, Department of Anatomy, University of Manitoba.

Dr. G. Tomlinson, Department of Chemistry, University of Winnipeg.

Dr. A. Wilson, Department of Psychiatry, University of Manitoba.

Dr. J. Winter, Department of Pediatrics (Endocrinology), University of Manitoba.

Dr. M.K. Younes, Respiratory Investigation Unit, Internal Medicine, University of Manitoba.

Dr. E.J. Zebrowski, Faculty of Dentistry, University of Manitoba.

B. LIST OF EQUIPMENT GRANTS

Investigator(s), Department, Institution Project Title. Specific Area or Disease.	Award Amount
GLAVIN, G. & ROCKMAN, G., Psychology, U of Winnipeg Spectophoto-Fluorometer and Centrifuge. Stress disorders and depression.	$23,000
JAMIESON, J.C., Chemistry, U of M High Field Nuclear Magnetic Resonance Spectrometer. Muscular Dystrophy, Rheumatoid arthritis.	16,000
WILKINS, J.A. & WARRINGTON, R.J., Rheumatic Diseases Research Laboratory, Medicine, U of M Pharmacia Fast Protein Liquid Chromatography System. Lymphoid cancers, autoimmune diseases.	15,990
	$54,990

C. LIST OF OPERATING GRANTS

BEGLEITER, A., Internal Medicine, U of M The Role of Free Radicals in the Mechanism of Action of Cancer Chemotherapeutic Agents. Cancer.	21,000
BIHLER, I., Pharmacology & Therapeutics, U of M Glucose transport in chromaffin cells and their primary cultures. Diabetes mellitus.	19,200
BOWNESS, J.M., Biochemistry, U of M Early Biochemical Events in Wound Healing: Cross-Linking of Fucosylated Subunits. Traumatic wounds, burns.	5,000
BROWN, J.H. & PARASKEVAS, F., Psychiatry & Immunology, U of M Depressive Illness and Neurological Complications in Malignancy: Can Tumor Antigens Induce Antibody to the Serotonin Receptor? Cancer, Multiple Sclerosis.	10,000
CHENG, G.K-W., Physiology, U of M Characterization of androgen-binding protein in follicular fluid. Fertility and infertility.	22,300

C. List of Operating Grants (Continued)

CHOY, P.C. & MAN, R.Y.K., Biochemistry & Physiology, U of M — $28,300
Lipid alterations during cardiac arrhythmias induced by myocardial ischemia in canine heart.
Cardiac arrhythmias.

DEGNER, L.F. & HENTELEFF, P.D., Nursing and Social & Preventive Medicine, U of M — 14,500
Evaluation of the Effectiveness of a Palliative Consultation Team (PCT): A Pilot Project.
Palliative Care.

GARTNER, J.G., Pathology, U of M — 29,500
Studies on Effector Cells and Target Antigens in the Graft-Versus-Host Reaction.
Bone-marrow transplantation.

GLAVIN, G.B. & ROCKMAN, G.E., Psychology, U of Winnipeg — 10,500
Predisposing Factors in Regional Brain Monoamine Responses to Stress.
Stress disorders and depression.

HAMERTON, J.L. & WANG, H.S., Human Genetics, U of M — 32,200
The integration of selectable genes into mammalian cells.
Down Syndrome.

JAY, F.T., Medical Microbiology, U of M — 38,800
Rabies Vaccine: Construction of a rabies antigen producing bacterium as a source of immunogen for production of a single polypeptide vaccine for humans.
Infectious disease.

KRYGER, M.H. & LIGHT, R.B., Respiratory Medicine, St. Boniface Hospital, & Infectious Diseases, U of M — 27,300
Perfluorochemicals (Artificial Blood) in Hypoxemic Respiratory Failure.
Respiratory Failure.

MARTIN, D.G., Psychology, U of M — 4,700
Brain function during functional/organic depression.
Depression.

MATUSIK, R.J., Physiology, U of M — 19,600
Sequencing of cloned cDNA from the Rat Dorsal Prostate.
Prostatic cancer.

C. List of Operating Grants (Continued)

NATHANIEL, E.J.H. & NATHANIEL, D.R.W., Anatomy, U of M — $21,400
Cerebellar Development in Fetal Alcohol Syndrome.
Fetal Alcohol Syndrome.

PATERSON, J.A. & JORDAN, L.M., Anatomy & Physiology, U of M — 5,500
A multi-user facility for Neurohistochemistry.
Head injury, brain tumors.

REID, R.E., Pharmacy, U of M — 25,000
An Investigation into the Mechanisms of Action of Drugs Altering Calcium Regulation of Cellular Activity.
Emotional Disorders.

SHIU, R.P.C., Physiology, U of M — 37,800
Studies on the Invasive and Metastatic Properties of Human Breast Cancer Cells.
Breast Cancer.

STEPHENS, N.L., Physiology, U of M — 27,000
A new method for studying cycling and non-cycling (latch) bridges in canine airway smooth muscle.
Respiratory disease.

WISEMAN, G.M., Medical Microbiology, U of M — 24,200
Ligand-Receptor Interaction in Neisseria Gonorrhoeae and Host Cells.
Gonorrhoea.

WROGEMANN, K., Biochemistry, U of M — 23,700
Studies on Structure and Function of Proteins from Genital Skin Fibroblasts.
Androgen resistance syndromes.

YAMADA, E.V.W., Biochemistry, U of M — 2,500
Molecular Mechanisms for Uncoupling of Oxidative Phosphorylation in Skeletal Muscle and Heart.
Cardiovascular and muscle diseases.

$450,000

PERSONNEL AWARDS

A. Scientific Review Committee

Dr. N.R. Anthonisen (Chairman), Respiratory Diseases, Internal Medicine, University of Manitoba.

Dr. J. Adair, Department of Psychology, University of Manitoba.

Dr. N. Chappell, Centre on Aging, University of Manitoba.

Dr. A. Froese, Department of Immunology, University of Manitoba.

Dr. G.J. Goldenberg, Institute of Cell Biology, University of Manitoba.

*Dr. J. Hamerton, Department of Human Genetics, University of Manitoba.

Dr. J.C. Jamieson, Department of Chemistry, University of Manitoba.

Dr. R.M. Prewitt, Cardiology, Internal Medicine, University of Manitoba.

**Dr. E.T. Pritchard, Department of Oral Biology, Faculty of Dentistry, University of Manitoba.

**Dr. B. Schacter, Institute of cell Biology, University of Manitoba.

**Professor K. Scherer, Manitoba Association of Registered Nurses.

Dr. N.L. Stephens, Department of Physiology, University of Manitoba.

**Dr. J. Wright, Institute of Cell Biology, University of Manitoba.

*Dr. K. Wrogemann, Department of Biochemistry, University of Manitoba.

* Reviewers for October competition only.

** Reviewers for July competition only.

B. List of Personnel Awards

Scholarships

DAVIE, J.R., Biochemistry, U of M Comparative Structure of Transcriptionally Active and Inactive Chromatin.	$30,000 *
MINK, S.N., Medicine (Respiratory Diseases), U of M Factors Affecting Wave-Speed Limit on Expiratory Flow.	30,000
	$60,000

Establishment Grants

DAVIE, J.R., Biochemistry, U of M Comparative Structure of Transcriptionally Active and Inactive Chromatin.	20,000 *
JOHNSTON, J.B., Manitoba Institute of Cell Biology, U of M The Effects of the Anthracyclines on RNA Synthesis in Isolated Nuclei.	20,000
McCREA, D.A., Physiology, U of M The Pathophysiology of Spinal Spasticity.	19,150 *
MINK, S.N., Medicine (Respiratory Diseases), U of M Factors Affecting Wave Speed Limit on Expiratory Flow.	8,000
NAGY, J.I., Physiology, U of M The neuroanatomy and biochemistry of the central and peripheral interactions of primary afferent systems.	20,000
O'NEILL, S., Medicine (Respiratory Diseases), U of M The influence of pulmonary surfactant on lung phagocyte function.	20,000
	$107,150

* Although these grants were awarded in the 1983/84 fiscal year, $27,650 of the total was carried forward into the 1984/85 fiscal year.

Post-Doctoral Fellowships

Investigator (Supervisor), Department, Institution Project Title or Area of Research.	Award Amount
GARRO, L.C. (Kaufert, J. & Postl, B.), Social and Preventive Medicine, U of M Applied Anthropology in Health.	$19,200
GEIGER, J.D. (LaBella, F.S.), Pharmacology and Therapeutics, U of M Neurobiology - Molecular Pharmacology.	19,200
HATTON, T.W. (Friesen, H.G.), Physiology, U of M Recombinant DNA and Protein Chemistry in Endocrinology.	18,000
RIDDELL, C. (Hamerton, J.L.), Human Genetics, U of M Human Genetics.	19,200
	$75,600

Graduate Studentships

ANDERSON, J.E. (Thliveris, J.A.), Anatomy, U of M Endocrinology of Diabetic Pit-Gonadal Axis in the Male Rat.	$9,400
COLEMAN, P. (Polimeni, P.I.), Physiology, U of M Cardiovascular physiology and pathophysiology.	9,400
DICK, J.E. (Wright, J.A.), Manitoba Institute of Cell Biology, U of M Biochemical Genetics.	9,400
HOBMAN, T.C. (Hamerton, J.L.), Human Genetics, U of M Molecular and Human Genetics.	9,400
MACLEAN, I.W. (Brunham, R.), Medical Microbiology, U of M Microbiology.	9,400
MAYO, L.L. (Holborn, S.), Psychology, U of M Behavioural Gerontology.	9,400
MEYER, N.E. (Dyck, D. & Holborn, S.), Psychology, U of M Behaviour Modification Experimental.	9,400

iv. Graduate Studentships (Continued)

MILLER, V. (Greenberg, A.H.), Immunology, U of M Tumor Immunology.	$9,400
SADOWSKI, I.J. (Israels, L.G. & Wright, J.A.), Manitoba Institute of Cell Biology, U of M Cancer Research.	9,400
SCOTT, G.C. (Wrogemann, K.), Biochemistry, U of M Medical Biochemistry.	9,400
	$94,000